



Missouri Department of Natural Resources
Middle Fork Tebo Creek - WBID 1284
Water Chemistry Data, 2000-2007

Org	Site	Site Name	Yr	Mo	Dy	Time	H	Flow	C	DO	pH	NH3N	SO4	Cl	SO4+Cl
MoDNR	1284/3.5	M. Fk. Tebo Cr. 4 mi.bl. AML	2000	3	21				8	7.4		424	7	431	
MoDNR	1284/3.5	M. Fk. Tebo Cr. 4 mi.bl. AML	2000	6	15				22	7.5		372	6	378	
MoDNR	1284/3.5	M. Fk. Tebo Cr. 4 mi.bl. AML	2000	9	21		4	0	14		7.1		585	5	590
MoDNR	1284/3.5	M. Fk. Tebo Cr. 4 mi.bl. AML	2001	4	26		9	2	15	7.4	7.4		618	6	624
MoDNR	1284/3.5	M. Fk. Tebo Cr. 4 mi.bl. AML	2001	6	13				25	6.8	7.4		650	4.99	655
MoDNR	1284/3.5	M. Fk. Tebo Cr. 4 mi.bl. AML	2001	8	14	1530	9		24		7.8		930	8	938
MoDNR	1284/3.5	M. Fk. Tebo Cr. 4 mi.bl. AML	2001	8	16	1120	9		22	4.7	7.4		1080	2.499	1082
MoDNR	1284/3.5	M. Fk. Tebo Cr. 4 mi.bl. AML	2001	9	6				23	6	7.3		1310	5	1315
MoDNR	1284/3.5	M. Fk. Tebo Cr. 4 mi.bl. AML	2001	10	3	1330			15	5.6	7.2		1070	5	1075
MoDNR	1284/3.5	M. Fk. Tebo Cr. 4 mi.bl. AML	2001	11	27				7		7.6		991	5.97	997
MoDNR	1284/3.5	M. Fk. Tebo Cr. 4 mi.bl. AML	2001	11	30				5	10.2	7.4		940	7	947
MoDNR	1284/3.5	M. Fk. Tebo Cr. 4 mi.bl. AML	2002	1	10	1200			0	12.2	7.4		1090	7	1097
MoDNR	1284/3.5	M. Fk. Tebo Cr. 4 mi.bl. AML	2002	3	14	1240			12	10.2	7.8		940	11	951
MoDNR	1284/3.5	M. Fk. Tebo Cr. 4 mi.bl. AML	2002	6	6				18	7.4	7.7		728	5.75	734
MoDNR	1284/3.5	M. Fk. Tebo Cr. 4 mi.bl. AML	2002	6	20				22	7	7.8		481	5	486
MoDNR	1284/3.5	M. Fk. Tebo Cr. 4 mi.bl. AML	2002	10	2	1335			21		7.7		595	2.499	597
MoDNR	1284/3.5	M. Fk. Tebo Cr. 4 mi.bl. AML	2002	11	20	1325			6	3.6	6.7		1490	7	1497
MoDNR	1284/3.5	M. Fk. Tebo Cr. 4 mi.bl. AML	2003	4	23	1050			15	9	7.7		1100	8	1108
MoDNR	1284/3.5	M. Fk. Tebo Cr. 4 mi.bl. AML	2004	6	16	1115			23	6.4	7.7		344	12	356
MoDNR	1284/3.5	M. Fk. Tebo Cr. 4 mi.bl. AML	2004	11	9	1520			11	10	7.5		380	8	388
MoDNR	1284/3.5	M. Fk. Tebo Cr. 4 mi.bl. AML	2005	5	26	1045			18.6		7.6		1070	5	1075
MoDNR	1284/3.5	M. Fk. Tebo Cr. 4 mi.bl. AML	2005	12	6				0.7	10.1	7.5		1840	15	1855
MoDNR	1284/3.5	M. Fk. Tebo Cr. 4 mi.bl. AML	2006	6	6	1350			23	6.6	7.4		870	6.26	876
MoDNR	1284/3.5	M. Fk. Tebo Cr. 4 mi.bl. AML	2006	12	14	1440			2	9.9	6.9		850	12	862
MoDNR	1284/3.5	M. Fk. Tebo Cr. 4 mi.bl. AML	2007	6	13	1050			22	5.9	7.3		594	6	600
MoDNR	1284/5.8	M. Fk. Tebo Cr. 2 mi.bl. AML	2000	3	21				10		7.6		479	6.9	486
MoDNR	1284/5.8	M. Fk. Tebo Cr. 2 mi.bl. AML	2000	6	15				22		7.3		447	5	452
MoDNR	1284/5.8	M. Fk. Tebo Cr. 2 mi.bl. AML	2000	9	21		4	0	16		7		941	2.499	943
MoDNR	1284/5.8	M. Fk. Tebo Cr. 2 mi.bl. AML	2001	4	26		9	1.5	16	7.9	7.4				
MoDNR	1284/5.8	M. Fk. Tebo Cr. 2 mi.bl. AML	2001	6	13				27	7	7.4		797	4.99	802
MoDNR	1284/5.8	M. Fk. Tebo Cr. 2 mi.bl. AML	2001	8	14	1540	9		26		7.9		1120	7	1127
MoDNR	1284/5.8	M. Fk. Tebo Cr. 2 mi.bl. AML	2001	8	16	1215	9		23	5.4	7.4		1350	2.499	1352
MoDNR	1284/5.8	M. Fk. Tebo Cr. 2 mi.bl. AML	2001	9	6				24	5	7.3		1300	8	1308

Org	Site	Site Name	Yr	Mo	Dy	Time	H	Flow	C	DO	pH	NH3N	SO4	Cl	SO4+Cl
MoDNR	1284/5.8	M. Fk. Tebo Cr. 2 mi.bl. AML	2001	10	3	1350			18	5.4	7.4		1080	5	1085
MoDNR	1284/5.8	M. Fk. Tebo Cr. 2 mi.bl. AML	2001	11	27				7		7.6		1250	6.12	1256
MoDNR	1284/5.8	M. Fk. Tebo Cr. 2 mi.bl. AML	2001	11	30				4	11	7.5		1260	7	1267
MoDNR	1284/5.8	M. Fk. Tebo Cr. 2 mi.bl. AML	2002	1	10	1135			0	12.6	7.3		1470	8	1478
MoDNR	1284/5.8	M. Fk. Tebo Cr. 2 mi.bl. AML	2002	3	14	1210			12	11.2	7.8		1140	10	1150
MoDNR	1284/5.8	M. Fk. Tebo Cr. 2 mi.bl. AML	2002	6	6				18	7.5	7.63		833	5.51	839
MoDNR	1284/5.8	M. Fk. Tebo Cr. 2 mi.bl. AML	2002	6	20				23	6	7.7		601	6	607
MoDNR	1284/5.8	M. Fk. Tebo Cr. 2 mi.bl. AML	2002	10	2	1400			21		7.4		1180	6	1186
MoDNR	1284/5.8	M. Fk. Tebo Cr. 2 mi.bl. AML	2002	11	20	1430			7	8.6	6.9		1650	8	1658
MoDNR	1284/5.8	M. Fk. Tebo Cr. 2 mi.bl. AML	2003	4	23	1110			14	9.2	7.6		1250	9	1259
MoDNR	1284/5.8	M. Fk. Tebo Cr. 2 mi.bl. AML	2004	6	16	1130			24	6.3	7.4		398	7	405
MoDNR	1284/5.8	M. Fk. Tebo Cr. 2 mi.bl. AML	2004	11	9	1600			11.5	9.6	7		437	9	446
MoDNR	1284/5.8	M. Fk. Tebo Cr. 2 mi.bl. AML	2005	5	26	1115			19.2		7.4		1260	5	1265
MoDNR	1284/5.8	M. Fk. Tebo Cr. 2 mi.bl. AML	2005	12	6	1210			1.9	11.6	7.6		1510	11	1521
MoDNR	1284/5.8	M. Fk. Tebo Cr. 2 mi.bl. AML	2006	6	6	1410			23	6.6	7.2		1060	5.43	1065
MoDNR	1284/5.8	M. Fk. Tebo Cr. 2 mi.bl. AML	2006	12	14	1400			3	8.7	6.8		984	12.3	996
MoDNR	1284/5.8	M. Fk. Tebo Cr. 2 mi.bl. AML	2007	6	13	1100			23	6	7.2		685	6	691
MoDNR	1284/8.6	M. Fk. Tebo Cr. @ Hwy. 2	2004	6	17	1115	0.33		21	6.9	7.5	0.01499	379	5.19	384

The water quality standard for protection of aquatic life for sulfate plus chloride is 1000mg/L. The Listing Methodology Document allows a water to be judged as impaired if 10 percent of measurements fail to meet the water quality standard. Twenty-two of 50 samples exceeded the standard, or 44 percent. The binomial probability is .341. Since this probability is less than the minimum allowable type one error rate of 0.1, this segment is judged to be **impaired** by sulfate plus chloride.

The water quality standard for the protection of aquatic life for dissolved oxygen is 5mg/L. For dissolved oxygen, the Listing Methodology Document allows a water to be judged as impaired if measurements on 10 percent of the days monitored fail to meet the water quality standard. Two of 37 days exceeded the standard, or 5.4 percent. Since the binomial probability is more than the minimum allowable type one error rate of 0.1, this water is judged to be **unimpaired** by low dissolved oxygen.

The U.S. Environmental Protection Program approved a total maximum daily load for sulfate and pH for Middle Fork Tebo Creek in 2004; therefore, Middle Fork Tebo Creek will not be placed on the 303(d) List.

Missouri Department of Natural Resources, Water Protection Program, (573) 751-1300, www.dnr.mo.gov
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